



NITROCELLULOSE (less than 12.6% nitrogen)			ICSC: 1560
Date of Peer Review: October 2005 Cellulose nitrate Cellulose tetranitrate Pyroxillin			
CAS #	9004-70-0	$C_{12}H_{16}(ONO_2)_4O_6$	
RTECS #	QW0970000	Molecular mass: 504.3	
UN #	(see Notes)		
EC Index #	603-037-01-3		
TYPES OF HAZARD / EXPOSURE	ACUTE HAZARDS / SYMPTOMS	PREVENTION	FIRST AID / FIRE FIGHTING
FIRE	Highly flammable. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames, NO sparks, and NO smoking.	Water in large amounts.
EXPLOSION			In case of fire: keep drums, etc., cool by spraying with water.
EXPOSURE			
Inhalation		Ventilation.	Fresh air, rest.
Skin		Protective gloves.	Remove contaminated clothes. Rinse skin with plenty of water or shower.
Eyes	Redness.	Safety goggles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
Ingestion		Do not eat, drink, or smoke during work.	Rinse mouth.
SPILLAGE DISPOSAL		PACKAGING & LABELLING	
Remove all ignition sources. Personal protection: P2 filter respirator for harmful particles. Keep wet. Collect the spill in covered containers. Carefully collect remainder, then remove to safe place.		EU Classification Symbol: F R: 11 S: (2-)16-33-37/39 UN Classification	
EMERGENCY RESPONSE		STORAGE	
Transport Emergency Card: TEC (R)- see Notes		Fireproof. Well closed. Separated from oxidants, bases, acids. Keep in a well-ventilated room.	

IPCS
International
Programme on
Chemical Safety



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between the International Programme on
Chemical Safety and the Commission of the
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NITROCELLULOSE (less than 12.6% nitrogen)		ICSC: 1560
IMPORTANT DATA		
PHYSICAL STATE; APPEARANCE: WHITE SOLID IN VARIOUS FORMS CHEMICAL DANGERS: Spontaneously flammable when dry. The substance decomposes rapidly on burning causing fire and explosion hazard, producing nitrogen oxides. Reacts with oxidants, bases and acids. OCCUPATIONAL EXPOSURE LIMITS: TLV not established. MAK not established.	EFFECTS OF SHORT-TERM EXPOSURE: See Notes.	
PHYSICAL PROPERTIES		
Relative density (water = 1): 1.66 Solubility in water: none		
ENVIRONMENTAL DATA		
NOTES		
<p>The commercial products are formulated with 30-35% of water, or ethanol, or 1-butanol or Isopropanol. Carrier solvents used in commercial formulations may change physical and toxicological properties. If the substance is formulated with solvents also consult the ICSCs of these materials. The formulation with more than 12.6% nitrogen is used exclusively for the explosives; EU classification: Index number 603-037-00-6, symbol E, R:1-3, S:(2)-35.</p> <p>Nitrocellulose, dry or wetted with less than 25% water (or alcohol) by weight: UN 0340; UN Hazard class 1.1D; Transport Emergency Card: TEC (R)-10G1.1.</p> <p>Nitrocellulose, unmodified or plasticized with less than 18% plasticizing substance: UN 0341; UN Hazard class 1.1D; Transport Emergency Card: TEC (R)-10G1.1.</p> <p>Nitrocellulose, wetted with not less than 25% alcohol by weight: UN 0342; UN Hazard class: 1.3C; Transport Emergency Card: TEC (R)-10G1.3.</p> <p>Nitrocellulose, plasticized with not less than 18% plasticizing substance by weight: UN 0343; UN Hazard class 1.3C; Transport Emergency Card: TEC (R)-10G1.3.</p> <p>Nitrocellulose, with water, not less than 25% water by weight: UN 2555; UN Hazard class: 4.1; UN Pack Group: II; Transport Emergency Card: TEC (R)-41S2555.</p> <p>Nitrocellulose, with alcohol, not less than 25% alcohol by weight, and not more than 12.6% nitrogen: UN 2556; UN Hazard class: 4.1; UN Pack Group: II; Transport Emergency Card: TEC (R)-41S2556.</p> <p>Nitrocellulose, with not more than 12.6% nitrogen dry weight, mixture with or without plasticizer, with or without pigment: UN 2557; UN Hazard class: 4.1; UN Pack Group: II; Transport Emergency Card: TEC (R)-41S2557.</p>		
ADDITIONAL INFORMATION		
LEGAL NOTICE	Neither the CEC nor the IPCS nor any person acting on behalf of the CEC or the IPCS is responsible for the use which might be made of this information	
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See Also:

Toxicological Abbreviations